Journal of Non-Crystalline Solids 160 (1993) 277–278
North-Holland

JOURNAL OF
NON-CRYSTALLINE SOLIDS

Author index

Aida, M.S., Energy distribution of Ar ions at the substrate in the sputtering deposition of a-Si : H films 160 (1993) 99
Aruchamy, A., S.J. Kim, D.P. Birnie III and D.R. Uhlmann, Glass microstructure and initial crystallization of $Pb_{0.32}Bi_{1.68}Sr_{1.75}Ca_2Cu_3O_x$ 160 (1993) 60

Bernal, M.J., see Riveiro, J.M. 160 (1993) 18
Bertin, F., see Tosan, J.-L. 160 (1993) 167
Birnie III, D.P., see Aruchamy, A. 160 (1993) 60
Boilot, J.-P., see Chaput, F. 160 (1993) 177
Boucher, B., see Chen, Q. 160 (1993) 23
Brec, R., see Fragnaud, P. 160 (1993) 1
Bruce, A.J., see Rabinovich, E.M. 160 (1993) 126
Brun, A., see Chaput, F. 160 (1993) 177

Canva, M., see Chaput, F. 160 (1993) 177
Chaput, F., J.-P. Boilot, M. Canva, A. Brun, R. Perzynski and D. Zins, Permanent birefringence of ferrofluid particles trapped in a silica matrix 160 (1993) 177
Chassagneux, F., see Tosan, J.-L. 160 (1993) 167
Chen, Q., R. Tourbot and B. Boucher, Nuclear and magnetic medium range order in amorphous $Tb_{67}Zr_{33}$ containing hydrogen 160 (1993) 23
Chen, Y., see Wang, W.-c. 160 (1993) 268
Chowdari, B.V.R., K.F. Mok, J.M. Xie and R. Gopalakrishnan, Spectroscopic and electrical studies of silver sulfophosphate glasses 160 (1993) 73
Clark, D.E., see Zhong, J.-p. 160 (1993) 247
Crisan, M., see Zaharescu, M. 160 (1993) 162

Dexpert, H., see Fragnaud, P. 160 (1993) 1
Dimitrov, D., see Georgieva, I. 160 (1993) 105
Durand, B., see Tosan, J.-L. 160 (1993) 167

Eckert, H., see Lathrop, D. 160 (1993) 111
Elliott, S.R., Calculation of the activation energy for ionic conduction in glasses 160 (1993) 29
Elyamani, A., see Kahnt, H. 160 (1993) 255

Fragnaud, P., E. Prouzet, G. Ouvrard, J.L. Mansot, C. Payen, R. Brec and H. Dexpert, Room temperature synthesis study of highly disordered a-$Ni_2P_2S_6$ 160 (1993) 1

Galeczki, G., Size effect in metal–dielectric composites 160 (1993) 68
Gartner, M., see Zaharescu, M. 160 (1993) 162
Georgieva, I., D. Nesheva, D. Dimitrov and V. Kozhukharov, Influence of crystallization on electrical and optical properties of Te–Se–Sn and Te–Se–Sn–O films 160 (1993) 105
Geus, J.W., see Kloprogge, J.T. 160 (1993) 144
Gopalakrishnan, R., see Chowdari, B.V.R. 160 (1993) 73

Hähnert, M., see Unger, B. 160 (1993) 152
Hirao, K., K. Tamai, S. Tanabe and N. Soga, Frequency upconversion and its new mechanism in Tm^{3+}-doped fluoroaluminate glasses 160 (1993) 261
Hu, T.-d., see Wang, W.-c. 160 (1993) 268
Hunt, A., Dielectric relaxation in dipole glasses, and thermal relaxation and the glass transition in systems with a maximum relaxation time 160 (1993) 42
Hunt, A., Non-Debye relaxation and the glass transition 160 (1993) 183

Jansen, J.B.H., see Kloprogge, J.T. 160 (1993) 144

Kahnt, H., J.M. Réau, A. Elyamani and M. Poulain, Influence of chlorine–fluorine substitution on the electrical properties of some fluoride glasses 160 (1993) 255
Kakinuma, F., Y. Tsuchiya and K. Suzuki, Molar volume and compressibility of the liquid Sb–Se system 160 (1993) 228
Kim, S.J., see Aruchamy, A. 160 (1993) 60
Kloprogge, J.T., D. Seykens, J.W. Geus and J.B.H. Jansen, The effects of concentration and hydrolysis on the oligomerization and polymerization of Al(III) as evident from the ^{27}AL NMR chemical shifts and linewidths 160 (1993) 144
Komatsu, T., see Sato, R. 160 (1993) 180
Kopylov, N.A., see Rabinovich, E.M. 160 (1993) 126
Kozhukharov, V., see Georgieva, I. 160 (1993) 105

Lathrop, D. and H. Eckert, Structural equilibria in chalcogenide glass formation. A re-examination of ^{31}P magic-angle spinning NMR studies of the system phosphorus–arsenic–selenium 160 (1993) 111

0022-3093/93/$06.00 © 1993 – Elsevier Science Publishers B.V. All rights reserved

Lindgren, E., see Poret, J.C. 160 (1993) 82
Loy, D.A., see Small, J.H. 160 (1993) 234

Mansot, J.L., see Fragnaud, P. 160 (1993) 1
Matusita, K., see Sato, R. 160 (1993) 180
McMillan, P., see Stebbins, J.F. 160 (1993) 116
Mok, K.F., see Chowdari, B.V.R. 160 (1993) 73
Moraweck, B., see Tosan, J.-L. 160 (1993) 167
Mosoni, L., see Tosan, J.-L. 160 (1993) 167
Moynihan, C.T. and J. Schroeder, Non-exponential structural relaxation, anomalous light scattering and nanoscale inhomogeneities in glass-forming liquids 160 (1993) 52

Nesheva, D., see Georgieva, I. 160 (1993) 105

Ouvrard, G., see Fragnaud, P. 160 (1993) 1

Payen, C., see Fragnaud, P. 160 (1993) 1
Perzynski, R., see Chaput, F. 160 (1993) 177
Pirlog, C., see Zaharescu, M. 160 (1993) 162
Popp, P., see Unger, B. 160 (1993) 152
Poret, J.C., E. Lindgren, M. Rosen, J.J. Suter and J.M. Rifkind, Laser-generated ultrasonic characterization of irradiated glass optical fibers 160 (1993) 82
Poulain, M., see Kahnt, H. 160 (1993) 255
Prouzet, E., see Fragnaud, P. 160 (1993) 1

Rabinovich, E.M., A.J. Bruce, N.A. Kopylov and P.L. Trevor, Multicomponent glasses from particulate gels 160 (1993) 126
Réau, J.M., see Kahnt, H. 160 (1993) 255
Rifkind, J.M., see Poret, J.C. 160 (1993) 82
Riveiro, J.M. and M.J. Bernal, Dendritic growth of electrodeposited Co–P amorphous alloys 160 (1993) 18
Rosen, M., see Poret, J.C. 160 (1993) 82
Roubin, M., see Tosan, J.-L. 160 (1993) 167

Sato, R., T. Komatsu and K. Matusita, Effect of Cu^{+} content on properties of $Bi_2Sr_2CaCu_2O_x$ glass 160 (1993) 180
Schade, U., see Unger, B. 160 (1993) 152
Schroeder, J., see Moynihan, C.T. 160 (1993) 52
Seykens, D., see Kloprogge, J.T. 160 (1993) 144
Shea, K.J., see Small, J.H. 160 (1993) 234
Shneidman, V.A. and M.C. Weinberg, The effects of transient nucleation and size-dependent growth rate on phase transformation kinetics 160 (1993) 89
Small, J.H., K.J. Shea and D.A. Loy, Arylene- and alkylene-bridged polysilsesquioxanes 160 (1993) 234
Soga, N., see Hirao, K. 160 (1993) 261
Stebbins, J.F. and P. McMillan, Compositional and temperature effects on five-coordinated silicon in ambient pressure silicate glasses 160 (1993) 116
Suter, J.J., see Poret, J.C. 160 (1993) 82
Suzuki, K., see Kakinuma, F. 160 (1993) 228

Tamai, K., see Hirao, K. 160 (1993) 261
Tanabe, S., see Hirao, K. 160 (1993) 261
Tosan, J.-L., B. Durand, M. Roubin, F. Chassagneux, L. Mosoni, F. Bertin and B. Moraweck, pH-metric and Raman investigations of zirconium aqueous solutions and gels submitted to a reflux 160 (1993) 167
Tourbot, R., see Chen, Q. 160 (1993) 23
Trevor, P.L., see Rabinovich, E.M. 160 (1993) 126
Tsuchiya, Y., see Kakinuma, F. 160 (1993) 228

Uhlmann, D.R., see Aruchamy, A. 160 (1993) 60
Unger, B., P. Popp, U. Schade and M. Hähnert, Reaction kinetics of SiO_2 and $ZnO–SiO_2$ sol–gel solutions 160 (1993) 152

Vasilescu, A., see Zaharescu, M. 160 (1993) 162

Wang, W.-c., Y. Chen, J.-g. Zhang and T.-d. Hu, Short-range order in ultrafine powder of an amorphous $(Fe_7Ni_3)_{69}B_{31}$ alloy 160 (1993) 268
Weinberg, M.C., see Shneidman, V.A. 160 (1993) 89

Xie, J.M., see Chowdari, B.V.R. 160 (1993) 73

Zaharescu, M., C. Pirlog, M. Crisan, M. Gartner and A. Vasilescu, TiO_2-based vitreous coatings obtained by sol–gel method 160 (1993) 162
Zhang, J.-g., see Wang, W.-c. 160 (1993) 268
Zhong, J.-p. and D.E. Clark, Interaction between colloidal particles in SiO_2 and TiO_2 sols 160 (1993) 247
Zins, D., see Chaput, F. 160 (1993) 177

Journal of Non-Crystalline Solids 160 (1993) 279–281
North-Holland

JOURNAL OF
NON-CRYSTALLINE SOLIDS

Subject index

Acoustic Properties
Fibers, Electron Spin Resonance 160 (1993) 82

Alloys
Glasses Containing Transition Metal Ions, Magnetic Properties, Processing Variables 160 (1993) 18
Magnetic Properties, Hydrogen Effects, Small Angle Neutron Scattering 160 (1993) 23

Amorphous Alloys
Glasses Containing Transition Metal Ions, EXAFS, Short-Range Order, XANES 160 (1993) 268

Chalcogenides
Liquid Metals, Liquid Semiconductors, Specific Heat, Elastic Properties 160 (1993) 228
Nuclear Magnetic Resonance, Structure, Equilibrium 160 (1993) 111
Thin Films, Optical Properties, Electrical Properties 160 (1993) 105

Coatings
Sol–Gel Processes, Titania 160 (1993) 162

Colloids
Sol–Gel Processes, Oxides, Viscosity 160 (1993) 247

Composites
Photoconductivity, Tunneling, Theory 160 (1993) 68
Sol–Gel Processes, Optical Properties 160 (1993) 177

Conductivity
Phosphates, Infra-red Absorption, Mixed-Anion Effect 160 (1993) 73

Crystallization
Sol–Gel Processes, Raman Spectra, Zirconia 160 (1993) 167

Deposition Techniques
Thin Films, Silicon, Ion Irradiation 160 (1993) 99

Dielectric Properties
Relaxation, Glass Transition, Modelling 160 (1993) 42

Doping
Sol–Gel Processes, Sol–Gel Precursors, Viscosity 160 (1993) 152

Dynamical Properties
Relaxation, Glass Transition, Photoconductivity, Mechanical Properties, Structural Relaxation, Electrical Properties and Relaxation 160 (1993) 183

Elastic Properties
Liquid Metals, Liquid Semiconductors, Chalcogenides, Specific Heat 160 (1993) 228

Electrical Properties
Chalcogenides, Thin Films, Optical Properties 160 (1993) 105
Halide Glasses, Fluorides, Mixed-Anion Effect 160 (1993) 255
Ionic Conductivity, Modelling 160 (1993) 29

Electrical Properties and Relaxation
Relaxation, Glass Transition, Dynamical Properties, Photoconductivity, Mechanical Properties, Structural Relaxation 160 (1993) 183

Electron Spin Resonance
Fibers, Acoustic Properties 160 (1993) 82

Equilibrium
Chalcogenides, Nuclear Magnetic Resonance, Structure 160 (1993) 111

EXAFS
Amorphous Alloys, Glasses Containing Transition Metal Ions, Short-Range Order, XANES 160 (1993) 268
Glasses Containing Transition Metal Ions, Phosphates, Magnetic Properties 160 (1993) 1

Fibers
Acoustic Properties, Electron Spin Resonance 160 (1993) 82

Fluorides
Electrical Properties, Halide Glasses, Mixed-Anion Effect 160 (1993) 255
Lasers, Rare Earth Ions 160 (1993) 261

Gels
Sol–Gel Precursors, Silicates 160 (1993) 126

0022-3093/93/$06.00 © 1993 – Elsevier Science Publishers B.V. All rights reserved

Glass Ceramics
Superconductors 160 (1993) 60

Glass Formation
Structural Relaxation, Light Scattering, Liquids 160 (1993) 52

Glass Transition
Dielectric Properties, Relaxation, Modelling 160 (1993) 42
Relaxation, Dynamical Properties, Photoconductivity, Mechanical Properties, Structural Relaxation, Electrical Properties and Relaxation 160 (1993) 183

Glasses Containing Transition Metal Ions
Alloys, Magnetic Properties, Processing Variables 160 (1993) 18
Amorphous Alloys, EXAFS, Short-Range Order, XANES 160 (1993) 268
Phosphates, EXAFS, Magnetic Properties 160 (1993) 1

Halide Glasses
Electrical Properties, Fluorides, Mixed-Anion Effect 160 (1993) 255

Hydrogen Effects
Alloys, Magnetic Properties, Small Angle Neutron Scattering 160 (1993) 23

Infra-red Absorption
Phosphates, Conductivity, Mixed-Anion Effect 160 (1993) 73

Ion Irradiation
Thin Films, Deposition Techniques, Silicon 160 (1993) 99

Ionic Conductivity
Electrical Properties, Modelling 160 (1993) 29

Kinetics
Phase Transition, Transient Effects, Theory 160 (1993) 89

Lasers
Rare Earth Ions, Fluorides 160 (1993) 261

Light Scattering
Structural Relaxation, Liquids, Glass Formation 160 (1993) 52

Liquid Metals
Liquid Semiconductors, Chalcogenides, Specific Heat, Elastic Properties 160 (1993) 228

Liquid Semiconductors
Liquid Metals, Chalcogenides, Specific Heat, Elastic Properties 160 (1993) 228

Liquids
Structural Relaxation, Light Scattering, Glass Formation 160 (1993) 52

Magnetic Properties
Alloys, Glasses Containing Transition Metal Ions, Processing Variables 160 (1993) 18
Alloys, Hydrogen Effects, Small Angle Neutron Scattering 160 (1993) 23
Glasses Containing Transition Metal Ions, Phosphates, EXAFS 160 (1993) 1

Mechanical Properties
Relaxation, Glass Transition, Dynamical Properties, Photoconductivity, Structural Relaxation, Electrical Properties and Relaxation 160 (1993) 183

Mixed-Anion Effect
Electrical Properties, Halide Glasses, Fluorides 160 (1993) 255
Phosphates, Conductivity, Infra-red Absorption 160 (1993) 73

Modelling
Dielectric Properties, Relaxation, Glass Transition 160 (1993) 42
Electrical Properties, Ionic Conductivity 160 (1993) 29

Nuclear Magnetic Resonance
Chalcogenides, Structure, Equilibrium 160 (1993) 111
Silicates, Structure 160 (1993) 116
Sol–Gel Precursors, Porosity, Surface Properties 160 (1993) 234
Sol–Gel Precursors, Reactions 160 (1993) 144

Optical Properties
Chalcogenides, Thin Films, Electrical Properties 160 (1993) 105
Sol–Gel Processes, Composites 160 (1993) 177

Oxidation Reduction
Superconductors 160 (1993) 180

Oxides
Sol–Gel Processes, Colloids, Viscosity 160 (1993) 247

Phase Transition
Kinetics, Transient Effects, Theory 160 (1993) 89

Phosphates
Conductivity, Infra-red Absorption, Mixed-Anion Effect 160 (1993) 73
Glasses Containing Transition Metal Ions, EXAFS, Magnetic Properties 160 (1993) 1

Photoconductivity
Composites, Tunneling, Theory 160 (1993) 68
Relaxation, Glass Transition, Dynamical Properties, Mechanical Properties, Structural Relaxation, Electrical Properties and Relaxation 160 (1993) 183

Porosity
Sol–Gel Precursors, Nuclear Magnetic Resonance, Surface Properties 160 (1993) 234

Processing Variables
Alloys, Glasses Containing Transition Metal Ions, Magnetic Properties 160 (1993) 18

Raman Spectra
Sol–Gel Processes, Crystallization, Zirconia 160 (1993) 167

Rare Earth Ions
Lasers, Fluorides 160 (1993) 261

Reactions
Sol–Gel Precursors, Nuclear Magnetic Resonance 160 (1993) 144

Relaxation
Dielectric Properties, Glass Transition, Modelling 160 (1993) 42
Glass Transition, Dynamical Properties, Photoconductivity, Mechanical Properties, Structural Relaxation, Electrical Properties and Relaxation 160 (1993) 183

Short-Range Order
Amorphous Alloys, Glasses Containing Transition Metal Ions, EXAFS, XANES 160 (1993) 268

Silicates
Gels, Sol–Gel Precursors 160 (1993) 126
Nuclear Magnetic Resonance, Structure 160 (1993) 116

Silicon
Thin Films, Deposition Techniques, Ion Irradiation 160 (1993) 99

Small Angle Neutron Scattering
Alloys, Magnetic Properties, Hydrogen Effects 160 (1993) 23

Sol–Gel Precursors
Gels, Silicates 160 (1993) 126
Nuclear Magnetic Resonance, Reactions 160 (1993) 144
Porosity, Nuclear Magnetic Resonance, Surface Properties 160 (1993) 234
Sol–Gel Processes, Doping, Viscosity 160 (1993) 152

Sol–Gel Processes
Optical Properties, Composites 160 (1993) 177
Oxides, Colloids, Viscosity 160 (1993) 247
Raman Spectra, Crystallization, Zirconia 160 (1993) 167
Sol–Gel Precursors, Doping, Viscosity 160 (1993) 152
Titania, Coatings 160 (1993) 162

Specific Heat
Liquid Metals, Liquid Semiconductors, Chalcogenides, Elastic Properties 160 (1993) 228

Structural Relaxation
Light Scattering, Liquids, Glass Formation 160 (1993) 52
Relaxation, Glass Transition, Dynamical Properties, Photoconductivity, Mechanical Properties, Electrical Properties and Relaxation 160 (1993) 183

Structure
Chalcogenides, Nuclear Magnetic Resonance, Equilibrium 160 (1993) 111
Nuclear Magnetic Resonance, Silicates 160 (1993) 116

Superconductors
Glass Ceramics 160 (1993) 60
Oxidation Reduction 160 (1993) 180

Surface Properties
Sol–Gel Precursors, Porosity, Nuclear Magnetic Resonance 160 (1993) 234

Theory
Composites, Photoconductivity, Tunneling 160 (1993) 68
Phase Transition, Kinetics, Transient Effects 160 (1993) 89

Thin Films
Chalcogenides, Optical Properties, Electrical Properties 160 (1993) 105
Deposition Techniques, Silicon, Ion Irradiation 160 (1993) 99

Titania
Sol–Gel Processes, Coatings 160 (1993) 162

Transient Effects
Phase Transition, Kinetics, Theory 160 (1993) 89

Tunneling
Composites, Photoconductivity, Theory 160 (1993) 68

Viscosity
Sol–Gel Processes, Oxides, Colloids 160 (1993) 247
Sol–Gel Processes, Sol–Gel Precursors, Doping 160 (1993) 152

XANES
Amorphous Alloys, Glasses Containing Transition Metal Ions, EXAFS, Short-Range Order 160 (1993) 268

Zirconia
Sol–Gel Processes, Raman Spectra, Crystallization 160 (1993) 167